UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/512,087	04/07/2005	Kiyoaki Takiguchi	261189US6PCT 9110		
22850 ORLON SPIN	7590 10/11/2007	EXAMINER			
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			PARK, EDWARD		
			ART UNIT	PAPER NUMBER	
			2624		
	•			·	
•		NOTIFICATION DATE	DELIVERY MODE		
		10/11/2007	ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

		Application	n No.	Applicant(s)				
Office Action Summary		10/512,087	7	TAKIGUCHI, KIYOAKI				
		Examiner		Art Unit				
		Edward Pa	rk	2624				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THI 36(a). In no ever vill apply and will , cause the applic	IS COMMUNICATION  nt, however, may a reply be time  expire SIX (6) MONTHS from the cation to become ABANDONEI	the mailing date of this condition (35 U.S.C. § 133).				
Status				•				
1)	Responsive to communication(s) filed on	<del>_</del> ·						
,	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) <u>59-74</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>59-74</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from con						
Applicati	ion Papers							
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>09 November 2004</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	re: a)⊠ ac drawing(s) be ion is require	e held in abeyance. See d if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 Cl	FR 1.121(d).			
Priority (	under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
			1	1				
Attachmen	et(s) ce of References Cited (PTO-892)		4) Interview Summary	(PTO-413)				
2) Notice 3) Information	the of References Cited (PTO-892) the of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) the No(s)/Mail Date 11/09/04, 8/25/06.		Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

Page 2

Application/Control Number: 10/512,087

Art Unit: 2624

## DETAILED ACTION

## Claim Objections

1. Claim 60 is objected to because of the following informalities: The phrase, "according to Claim 59" appears to be a typographical error. Appropriate correction is required.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 59-62, 64-68, 70-73 are rejected under 35 U.S.C. 102(b) as being anticipated by Miura et al (US 2002/0028004 A1).

Regarding **claim 59**, Miura teaches a biometric pattern detecting device comprising: a light source unit configured to emit a light to be reflected or scattered in a part of body (Miura: figure 5, numeral 2);

Art Unit: 2624

and a detecting unit configured to detect an image of the light reflected or scattered in the part of body by the light source unit (Miura: figure 5, numeral 4) and generate a biometric pattern using the detected image (Miura: figure 9), wherein the light source unit is set in a horizontal direction or a horizontally slanted direction with respect to the part of body (Miura: figure 5, numeral 2) and the detecting unit is set in a vertical direction or a vertical slanted direction with respect to the part of body (Miura: figure 5, numeral 4).

Regarding claim 60, Miura teaches detecting unit detects the image of the light reflected or scattered in the body on the different position from the position of the light emitted by light source unit (Miura: figure 5).

Regarding **claim 61**, Miura teaches wherein the part of body is a finger or a hand (Miura: figure 5, numeral 20).

Regarding **claim 62**, Miura teaches wherein the biometric pattern is a pattern of blood vessels (Miura: paragraph [0033]).

Regarding claim 64, Miura teaches a guide unit set between the detecting unit and the part of body (Miura: figure 5, numeral 1).

Regarding claim 65, Miura teaches a personal authentication device comprising: a light source unit configured to emit a light to be reflected or scattered in a part of body (Miura: figure 5, numeral 2);

a detecting unit configured to detect an image of the light reflected or scattered in the part of body by the light source unit (Miura: figure 5, numeral 4) and for generating a biometric pattern using the detected image (Miura: figure 9);

a storage unit configured to store a biometric pattern (Miura: paragraph [0008]); and

Art Unit: 2624

an authentication unit configured to perform an authentication process by comparing the biometric pattern generated by the detecting unit with the biometric pattern stored by the storage unit (Miura: figure 9), wherein the light source unit is set in a horizontal direction or a horizontally slanted direction with respect to the part of body (Miura: figure 5, numeral 2) and the detecting unit is set in a vertical direction or a vertical slanted direction with respect to the part of body (Miura: figure 5, numeral 4).

Regarding **claim 66**, Miura teaches detecting unit detects the image of the light reflected or scattered in the body on the different position from the position of the light emitted by light source unit (Miura: figure 5).

Regarding claim 67, Miura teaches wherein the part of body is a finger or a hand (Miura: figure 5, numeral 20).

Regarding **claim 68**, Miura teaches wherein the biometric pattern is a pattern of blood vessels (Miura: paragraph [0033]).

Regarding **claim 70**, Miura teaches a guide unit set between the detecting unit and the part of body (Miura: figure 5, numeral 1).

Regarding claim 71, Miura teaches a method of performing personal authentication, comprising:

emitting a light to be reflected or scattered in a part of body (Miura: figure 5, numeral 2); detecting an image of the light reflected or scattered in the part of body (Miura: figure 5, numeral 4);

generating a biometric pattern using the detected image (Miura: figure 9);

Art Unit: 2624

performing an authentication process by comparing the generated biometric pattern with a stored biometric pattern (Miura: figure 9),

wherein the emitted light is emitted from a horizontal direction or a horizontally slanted direction with respect to the part of body (Miura: figure 5, numeral 2) and the image of the light reflected is detected in a vertical direction or a vertical slanted direction with respect to the part of body (Miura: figure 5, numeral 4).

Regarding claim 72, Miura teaches wherein the part of body is a finger or a hand (Miura: figure 5, numeral 20).

Regarding claim 73, Miura teaches wherein the biometric pattern is a pattern of blood vessels (Miura: paragraph [0033]).

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 63, 69, 74 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miura et al (US 2002/0028004 A1) in view of Murakami et al (US 6,483,929 B1).

Regarding **claim 63**, Miura discloses all elements as mentioned above in claim 59. Miura does not teach a near-infrared light.

Murakami teaches a near-infrared light (Murakami: col. 6, lines 42-52)

Art Unit: 2624

It would have been obvious at the time the invention was made to one of ordinary skill in the art to modify the Miura reference to utilize a near-infrared light as suggested by Murakami, to "penetrate the skin of the finger and absorb or reflect off the user's skin and subskin tissues an, specifically, arterial tissues ... [in order for] the reflected light [to be received by the system and converted into an electronic signal, which can then be stored in some electronic format" (Murakami: col. 6, lines 42-52).

Regarding **claim 69**, Miura discloses all elements as mentioned above in claim 65. Miura does not teach a near-infrared light.

Murakami teaches a near-infrared light (Murakami: col. 6, lines 42-52)

It would have been obvious at the time the invention was made to one of ordinary skill in the art to modify the Miura reference to utilize a near-infrared light as suggested by Murakami, to "penetrate the skin of the finger and absorb or reflect off the user's skin and subskin tissues an, specifically, arterial tissues ... [in order for] the reflected light [to be received by the system and converted into an electronic signal, which can then be stored in some electronic format" (Murakami: col. 6, lines 42-52).

Regarding claim 74, Miura discloses all elements as mentioned above in claim 71. Miura does not teach a near-infrared light.

Murakami teaches a near-infrared light (Murakami: col. 6, lines 42-52)

It would have been obvious at the time the invention was made to one of ordinary skill in the art to modify the Miura reference to utilize a near-infrared light as suggested by Murakami, to "penetrate the skin of the finger and absorb or reflect off the user's skin and subskin tissues an, specifically, arterial tissues ... [in order for] the reflected light [to be received by the system

Page 7

Application/Control Number: 10/512,087

Art Unit: 2624

and converted into an electronic signal, which can then be stored in some electronic format"

(Murakami: col. 6, lines 42-52).

Conclusion

Any inquiry concerning this communication or earlier communications from the 6. examiner should be directed to Edward Park whose telephone number is (571) 270-1576. The

examiner can normally be reached on M-F 10:30 - 20:00, (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Brian Werner can be reached on (571) 272-7401. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Edward Park

Examiner

Art Unit 2624

/Edward Park/

SUPERVISORY PATENT EXAMINER BRIAN WERNER

Page 8

Application/Control Number: 10/512,087

Art Unit: 2624